**Using AWOP to Lower Health-Based Violations Q & A**

**AWOP National Meeting**

**July 19 – 21, 2021**

1. **Robert Reaves question for Bill – It appears the study data starts in the summer and ends in the winter. How are you able to identify improvements versus the seasonal effects on DBP formation for the systems?**

* We used running annual averages in the table prepared for the presentation that showed improvements, which in some ways takes into account seasonal variations. There is still a need, however, to further assess the project over a longer term.

1. **Jeff Pompeo question for Candy – Do you have any of the training you offered to water systems/operators recorded?**

* We do not have it recorded, but the presentations and workshops are available for use. Plant tour recordings for Nowata and Checotah are available if anyone is interested in viewing. Contact Alison Dugan or Candy Thompson for materials.

1. **Luis Andrade question for José – Any idea of the reason for the TC+ samples at the source?**

* We did not identify a source of the total coliform. One of the initial raw water samples col­lected at the water treatment plant was TC+, but follow-up samples closer to the well were negative. They had an incident with their filters in June 2019 where they lost some of the media. The positive sample could have been associated with that, even though, as long as they had a good chlorine residual, they were okay. It was our best guess as to what hap­pened to cause the positive result.

1. **Evan Hofeld – Are the utilities in Pennsylvania now supportive of the 0.2 mg/L residual requirement?**

* Kevin said they are more supportive now that the rule is in place. There was a fear of increased DBPs, but now that they are beyond that point, utilities see they can manage DBPs with adjustments to existing facilities. They are also seeing fewer RTCR violations, and the rule is written in a way that allows flexibility for utilities to fix problems before a violation takes place.

1. **Johnny Mendez question for Kevin – Do you have references for the EPA 0.1 mg/L resolu­tion requirement for chlorine methods?**

* Yes, these are included in the session documentation.

1. **Evan Hofeld question for Kevin – Do you have any presentations with stakeholders or out­reach materials that you could share for Pennsylvania residual rule change?**

* Yes, these are included in the session documentation.

1. **Does Pennsylvania require all ground water systems to disinfect?**

* Yes, all community systems must disinfect (1-log *Giardia* inactivation for surface water and 4-log virus inactivation for ground water systems). The 0.2 mg/L residual is required for all distribution systems.

1. **Johnny Mendez question for Kevin – Are there any increased corrosion issues in distribu­tion as a result of the higher chlorine residual, or was the change implemented slowly for most systems?**

* Kevin was not sure about the answer to this question (Pb, Cu impacts). He said that it is a good question, but they have not looked into this yet. Bethany said she had not heard of any issues.